CenterPoint Energy

P.H. Robinson to W.A. Parish 345 kV Hardening Project

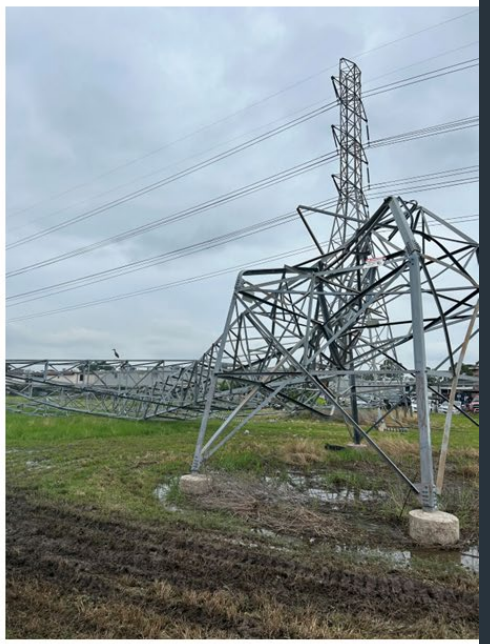
High Voltage Planning

CenterPoint Energy Houston Electric

09/25/2025

Project Background

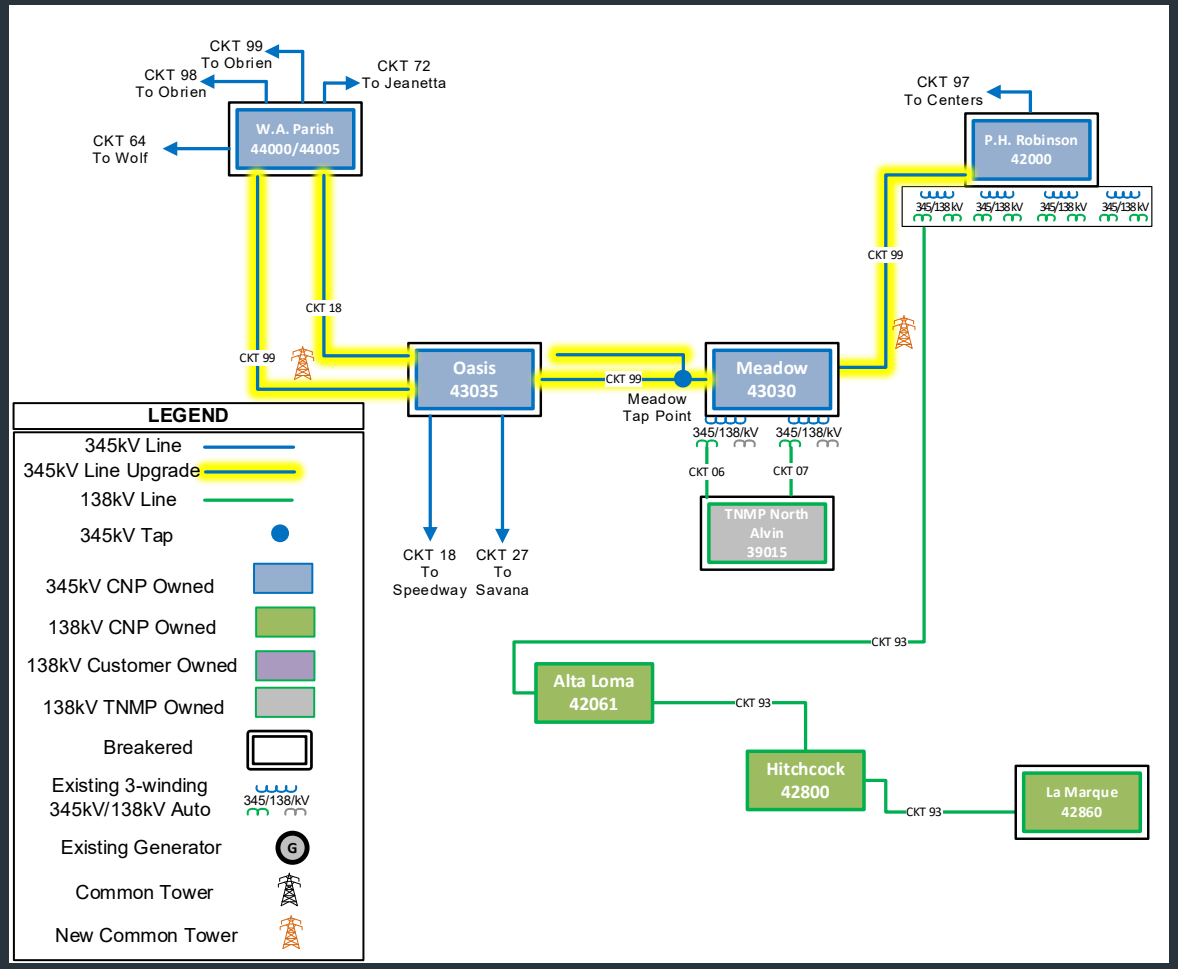
- In May 2024, a severe storm, labeled the Derecho Event, caused structural failure of several transmission towers of similar legacy transmission steel towers design as 345 kV circuits from P.H. Robinson to W.A. Parish.



Project Background

- Given the number of susceptible legacy structures, proximity to the Gulf Coast, and potential for high wind events, CenterPoint Energy determined the need to complete a hardening Project involving the rebuild of the 345 kV Corridor from P.H. Robinson to W.A. Parish by December 2028.

Study-Project Configuration



Project Overview

- Rebuild/reconductor approximately 40.16 miles of 345 kV P.H. Robinson to W.A. Parish with 3-959ACSS conductor on double-circuit-capable steel structures with only one circuit in place, which includes:
  - Rebuild/reconductor approximately 17.40 miles of 345 kV P.H. Robinson to Meadow Ckt.99. Minimum Normal/Emergency ratings of 2987/2987 MVA.
    - Ckt.93 will be rebuilt to the North of Ckt.99A within the existing transmission ROW. Ckt.99
    - Upgrade substation equipment to 5000A.
  - Rebuild approximately 3.18 miles of 345 kV Meadow to Oasis Ckt.99. Minimum Normal/Emergency ratings of 2987/2987 MVA.
    - Upgrade substation equipment to 5000A.
  - Rebuild approximately 19.58 miles of 345 kV Oasis to W.A. Parish Ckt.99 and Oasis to W.A. Parish Ckt.18. Minimum Normal/Emergency ratings of 2987/2987 MVA.
    - Upgrade substation equipment to 5000A.
- Upgrade 345 kV Oasis substation to 63 kAIC fault duty breaker rating
- Total estimated cost of the proposed Project - $511.313 million
- This cost includes allocations for temporary construction to minimize the outages during the Project's construction phase

Study Analysis

- Steady-state: CenterPoint Energy analyzed and verified that the rebuild and reconductor of 345 kV P.H. Robinson to W.A. Parish Hardening Project would not cause any reliability concerns for the CEHE transmission system under CEHE Planning Events P1-P7.
- Short Circuit: CenterPoint Energy analyzed fault duty levels at the area substations and found the need to upgrade Oasis substation to a higher fault duty rating.

Project Timeline

- This is a Tier 1 project that does not require a certificate of convenience and necessity (CCN) from the Public Utility Commission of Texas (PUCT) to construct.
- RPG Review: Aug. 6 – Aug. 27 2025
- ERCOT IR Complete: Jan. 24 2026
- The proposed project is expected to be completed by December 2028

Questions